muszd4nm[1] Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**HOW LONG IS A “DAY” ON THE OTHER PLANETS IN THE SOLAR SYSTEM?**

You remember that one rotation of Earth takes 1 day (24 hours). The other planets in our solar system also rotate, but it takes them different amounts of time to complete one spin. So, use the chart below to answer the questions.

|  |  |
| --- | --- |
| **Planet** | **Length of Day in “Earth Days”** |
| Mercury | 58 |
| Venus | 243 |
| Earth | 1 |
| Mars | 1.0003 |
| Jupiter | 0.42 |
| Saturn | 0.44 |
| Uranus | 0.71 |
| Neptune | 0.67 |
| Pluto | 6 |

1. List the planets with a “day” longer than Earth’s day.
2. List the planets with a “day” shorter than Earth’s day.
3. What happens to the temperature on the side of a planet that is facing the sun if the planet rotates slowly (has a long “day”)? (hint: Think about the chicken on a rotisserie)
4. What happens to the temperature on the side of a planet that is not facing the sun if the planet rotates slowly? (hint: Think about the chicken on a rotisserie)
5. What happens to the temperature of a planet that has a shorter day (rotates more quickly)?

(hint: Think about the chicken on a rotisserie)

6. Based on your answers to questions 3, 4, and 5, fill in the blanks of this sentence:

The \_\_\_\_\_\_\_\_\_\_\_\_\_ a planet rotates, the \_\_\_\_\_\_\_\_\_\_\_\_\_ the temperature range

will be on that planet.